

XI'AN FUNCTION MATERIAL GROUP CO., LTD Material Safety Data Sheet Calcium Metal

1. Product and Company Identification		
Trade Name:	Calcium	
Chemical Formula:	Ca	
Manufacturer/Supplier:	XI'AN FUNCTION MATERIAL GROUP CO., LTD	
Street:	No. 69, Gazelle Valley, High-Tech Zone	
City:	XI'AN	
State:	Shaanxi	
Zip Code:	710077	
Country:	China	
Tel #:	+86-29-88993870/+86-13519132051	
	2. Hazards Identification	
Signal Word:	Danger	
Hazard Statements:	H261: In contact with water releases flammable gas	
Precautionary Statements:	 P231+232: Handle under inert gas. Protect from moisture P280: Wear protective gloves/protective clothing/eye protection/face protection. P233: Keep container tightly closed P370+P378: In case of fire: Use CO₂, sand, extinguishing powder for extinction P402+404: Store in a dry place. Store in a closed container P501: Dispose of contents/container in accordance with 	
	local/regional/national/international regulations	
HMIS Health Ratings (0-4):		
Health:	1	
Flammability:	3	
Physical:	2	
	3. Composition	
Chemical Family:	Metal	
Additional Names:	None	
Calcium (Ca):	100	
Percentage:	100 wt%	
CAS #: EC #:	7440-70-2 231-179-5	
HI #	/ 1/- 1/9-7	

	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any
Even	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	Flammable
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
	clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in
Ĩ	special protection information. Isolate spill area and provide
	ventilation. Vacuum up spill using a high efficiency particulate
	absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
Environmental Precations.	isolute relief to prevent environmental politicion.
	7. Handling and Storage
Handling Conditions:	Handle under dry protective gas. Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry
Work/Hygienic Maintenance:	inert gas. Store apart from materials and conditions listed in section 10.Do not use tobacco or food in work area. Wash thoroughly before
	eating and smoking. Do not blow dust off clothing or skin with
	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.
8. E	xposure Controls and Personal Protection
Permissible Exposure Limits:	N/A
Threshold Limit Value:	N/A
Special Equipment:	None
Respiratory Protection:	Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a
	backup to engineering controls. Risk assessment should be performed
	to determine if air-purifying respirators are appropriate. Only use
	equipment tested and approved under appropriate government
Protective Gloves:	standards. Nitrile rubber, NBR 0.11mm thick.
Penetration time of glove material:	480 minutes
Eye Protection:	Safety glasses or goggles, Full face protection
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Body Protection:	Protective work clothing. Wear close-toed shoes and long

9. Physical and Chemical Characteristics		
Color	Silvery-white	
Form:	Granules, Pellets, Sputtering target, Custom parts	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	1440 °C	
Melting Point:	842 °C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	1.54 g/cc	
Molecular weight:	40.08 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents	
Incompatible Conditions:	Air, Water/moisture	
Hazardous Decomposition Products:	Calcium oxide	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	May cause irritation	
Skin:	May cause irritation	
Ingestion:	May cause irritation	
Inhalation:	May cause irritation	
Chronic:	N/Å	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	N/A	
Carcinogen:	N/A	
	12. Ecological Information	
Aquatic Toxicity:	Low	
Persistent Bioaccumulation Toxicity:	No	
Very Persistent, Very Bioaccumulatives	: No	
Notes:	N/A	
	13. Disposal Considerations	

Dispose of in accordance with local, state, national, and international regulations.

Hazardous:	Hazardous for transportation.
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Hazard Class:	4.3 Substances which, in contact with water, emit flammable gases.
Secondary Class:	4.2 Substances liable to spontaneous combustion.
Packing Group:	II
UN Number:	UN1401
Proper Shipping Name:	Calcium
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	No

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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